1. A linear array consists of three equ
outputs are summed to produce a s
distant single frequency source (118
hydrophone signals and the summe

(a) The arriving signal has an inci

(b) The arriving signal has an inci

39.35

$s(t) = \cos(\Omega_0 t) + \cos(\Omega_0 t - \frac{d \sin\alpha}{c}) + \cos(\Omega_0 t - \frac{2d \sin\alpha}{c})$

✓

$c = 1500$ m/s

$d = 1$ m

$\Omega_0 = (1183.101\ \text{Hz})\ 2\pi$

4.5 / 10

a) $\alpha = 25°$

$s_1(t) = \cos(7433.6t)$

$s_2(t) = \cos(7433.6t - (2.82 \cdot 10^{-4}))$

$s_3(t) = \cos(7433.6t - (5.63 \cdot 10^{-4}))$

b) $\alpha = 39.35$

$s_1(t) = \cos(7433.6t)$

$s_2(t) = \cos(7433.6t - (4.23 \cdot 10^{-4}))$

$s_3(t) = \cos(7433.6t - (8.45 \cdot 10^{-4}))$